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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/852,398	05/09/2001	Jean-Yves Bouquet	42390.P10789	5403
7590	04/29/2004		EXAMINER	
Sang Hui Michael Kim BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			KIBLER, VIRGINIA M	
			ART UNIT	PAPER NUMBER
			2623	
DATE MAILED: 04/29/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)
	09/852,398	BOUGUET ET AL.
Examiner	Art Unit	
Virginia M Kibler	2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 26 February 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,3-6,8-11 and 13-15 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1,3-6,8-11 and 13-15 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____

DETAILED ACTION

Response to Amendment

1. The amendment received on 2/26/04 has been entered. Claims 1, 3-6, 8-11, and 13-15 remain pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 3-6, 8-11, and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Guenter et al. (*Making Faces*).

Regarding claims 1, 6, and 11, Guenter et al. (“Guenter”) discloses obtaining stereo data based on input image sequences (Sect. 2) including obtaining stereo data based on input image sequences of varying facial expressions (Abstract, lines 3-6; Sect. 1, para 2; Conclusion) and building a 3D model using the obtained stereo data (Abstract). Guenter further discloses tracking a monocular image sequence using the built 3D model (Sect. 3.1, para. 3).

Regarding claims 3, 8, and 13, Guenter discloses the 3D model includes processing the obtained stereo data using PCA (Sect. 7.1).

Regarding claims 4, 9, and 14, Guenter discloses using PCA to process the stereo data (Sect. 7.1), thereby allowing the 3D model to approximate a generic shape as a linear combination of shape basis vectors.

Regarding claims 5, 10, and 15, Guenter discloses the tracking monocular image sequence of facial deformations (Figure 16).

Response to Arguments

4. Applicant's arguments filed 2/26/04 have been fully considered but they are not persuasive.

Summary of Applicant's Argument: Guenter does not disclose nor suggest the limitation of obtaining stereo data based on input image sequences, including obtaining stereo data based on input image sequences of varying facial expressions. Guenter is limited to disclosing the 3-D geometry, color, and shading in order to reconstruct 3D animations of captured expressions, as opposed to applicant's claimed limitation of obtaining stereo data based on input image sequences of varying facial expressions.

Examiner's Response: In the abstract, Guenter discloses using "a large set of sampling points on the face to accurately track the three dimensional deformations of the face," thereby including an image sequence of varying facial expressions. Guenter further discloses capturing human facial expressions using a video of a live actor's face recorded from multiple camera positions simultaneously (Intro, para. 1; Figure 1; Conclusion). Therefore, Guenter discloses obtaining stereo data based on input image sequences including obtaining stereo data based on input image sequences of varying facial expressions.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Virginia M Kibler whose telephone number is (703) 306-4072. The examiner can normally be reached on Mon-Thurs 8:00 - 5:30 and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (703) 308-6604. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Virginia Kibler

Virginia Kibler
4/27/04

MEHRDAD DASTOURI
PRIMARY EXAMINER

Mehrdad Dastouri